SCDXC Newsletter

The Southern California DX Club is a group of dedicated men and women active in the amateur radio community who enjoy communicating over the air with other radio amateurs around the world.

The SCDXC strongly supports the DX Code of Conduct. Please visit their website:

www.dx-code.org

The SCDXC newsletter is published monthly and released to club members around the first of each month. Amateur and DX related letters, news and pictures are welcome and will be published as time and space permit.

Articles will be republished with recognition of the author and the club. Reuse of copyrighted materials require the original author's permission.

Any questions regarding this newsletter or its articles should be addressed to the Editor, Bill, N6RV at:

n6rv@scdxc.org

Club meetings are held on the second Thursday of the month at 7:00 PM except April, June, and December.

Please check the club web site for events and details at:

http://www.scdxc.org

If you are in the area please say hello on our repeater:

W6AM/R 145.48, (-) PL 100.0

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If you need him get in there and work him"

The colors that never run

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From the Desk of the President

Scott Orr, W6MKO

Hello Fellow Quarantinees,

Unfortunately, all of our functions have been cancelled so far but hopefully this virus will die out sometime this month. I know like me, you were all looking forward to the convention but we have some things in the works that may let us meet online and watch some presentations.

If anyone has some suggestions on how we can move forward, let a board member know or email me. Several members have suggested moving the convention to another month but I don't know how feasible that would be. It is a lot of work to get the convention up and running and Kris and Cathy have diligently been working to return monies and other items.

Please remember to follow the CDC guidelines to keep yourselves safe. If anyone needs some help please let me know.

Until next time,

73,

Scott Orr
2020 SCDXC President
W6MKO

EL2EF Eric in Liberia

VP April 2020 Blurb
Doug - W6HB

Howdy to all the quarantined old folks and a few "yoots."

I personally want to thank all who busted their posteriors to put on the IDXC 2020. I for one know the unrequited hours it took only to be erased by a bug no one had any control over. I guess this is just another reason I prefer Pacifico over Corona! From my keyboard I pass a major "attaboy" to the vendors who raised the bar for prizes only to suffer the depression we all did when the efforts had to be scrubbed. Here's hoping we all recover and we can find some new blood to lead the charge in 2022.

A team of "SCDXC digital gurus" are working on a possible virtual meeting format. Standby for more information as to the "how" and "when" Jim, W6KC, will yet share his touring four European countries and operating from around fourteen cities.

Mel, K6SY, informed me that the deal to continue using the WEMS facility fell through and we will not be able to meet there after July 2020. Your BOD is looking for a new home for us -- can you help in any way with ideas or a central venue?

Unless preempted by the COVID-19 I am still scheduled for a right knee replacement May 7. If and or when we resume "face to face" meetings I will coordinate the prizes by delegation. We purchased some items for the IDXC and some vendors have rolled over their donations to the SCDXC so these are in the pool.

Until we know more I can only tender my best wishes that all are and remain healthy. Stay home and push some RF out via your favorite mode!

73 and Good DXing!
Doug Dowds
W6HB

April Calendar

April	4	SP DX Contest
April	4	EA RTTY Contest
April	11	JIDX CW
April	11	FTX DX Contest
April	11	OK/OM DX Contest
April	11	YURI Gagarin International DX Contest
April	**13**	**No Regular Meeting**
April	17	Holyland DX Contest
April	17	ES Open HF Championship
April	18	Work All Provinces of China DX Contest
April	18	YU DX Contest
April	18	CQMM DX Contest
April	25	SP DX RTTY Contest
April	25	Helvetia Contest

For more contest Info see: **http://www.hornucopia.com/contestcal/contestcal.html**

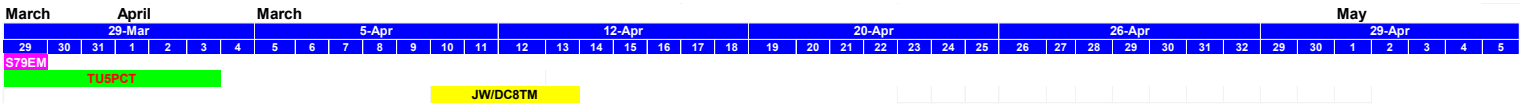
NO APRIL MEETING!!!!

Rumors on the Band

Well, the Corona Virus has struck at the heart of Dxing. There are virtually no DXpeditions going on! Nevertheless, the indigenous operators are out in force. One more month and the 6 meter sporadic E season begins.

QTH	Call	Start Date	End Date	Information
Seychelles	S79EM	Now	29-Mar	G7EQM 20m SSB FT8
Ivory Coast	TU5PCT	Now	3-Apr	ON7TQ ON4EI ON1DX ON6KX 160 - 10m CW SSB RTTY FT4 FT8
Svalbard	JW/DC8TM	10-Apr	13-Apr	DX8TM HF SSB FT8

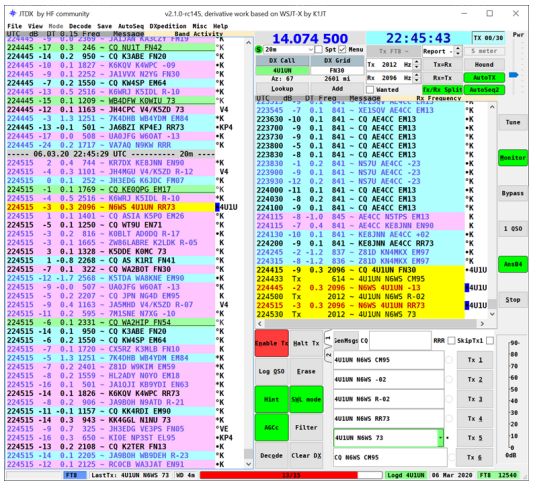
DX for April



DX Standings

Bill, N6WS, our senior associate club member has completed 5BWAZ. Number 200 was on 80 meters with zone 40.

Bill was also the first FT8 QSO at 4U1UN. The operator at the UN was none other than Joe Taylor, K1JT. Note that Bill was not using WSJTx :-)!!



Send any updates to:

N6RV@SCDXC.org

SCDXC WAZ and DXCC Standings

The first WAZ column is the confirmed zone count on 10 bands 160 - 6 (less 60 meters). The second column is the regular 5BWAZ confirmed count. The following are the codes that follow the two columns and indicate the awards:

M	Mixed
P	Phone
C	CW
R	RTTY

SCDXC Lifetime Standings

Rank	Call	Total	Current	Slots	Rank	Call	Total	Current	Slots
1	W6KH	389	340		62	K6JW	329	323	1068
2	K6KII	387	340		63	AA6PW	328	328	1709
3	JA1BK	383	340	3147	64	N6AX	327	327	1198
4	K6YRA	378	340	2272	65	AC6DX	322	320	1887
5	OH2BH	377	340		66	N6NPG	319	319	
6	ON4UN	373	340	1975	67	K7MY	319	317	831
7	N6UC	368	339		68	AK6I	317	317	
8	DJ9ZB	365	340	2665	69	W1YL	315	315	
9	K6YUI	366	340	2598	70	KC6T	314	314	
10	W6BCQ	365	339	1600	71	N6GP	314	292	1583
11	NS6C	361	340	2503	72	W6HB	311	311	1029
12	K6SMF	360	338		73	N6VNI	311	309	1550
13	W6SR	359	340	2799	74	NK6A	303	297	957
14	W6HT	358	340		75	K6IRD	298	292	649
15	K6FG	357	340	2774	76	ZL3TE	297	295	1430
16	K8RD	357	340		77	N6DHZ	295	289	1053
17	WA6WZO	357	339		78	N6WT	294	294	1436
18	N6RV	356	339	2191	79	N6UOZ	280	280	
19	W6OU	356	337	1599	80	KT6LA	279	277	1035
20	K6GXO	355	340	2633	81	WA6WXD	274	220	
21	K5KT	355	340		82	K6VC	259	225	
22	W6TJI	355	338		83	K6SS	255	225	882
23	K6IPV	355	335	1800	84	K6RI	250	250	597
24	N6QQ	354	338	2178	85	W3SE	249	244	754
25	W6IRD	354	338		86	W6DOE	244	244	1005
26	W8DX	352	339	2517	87	KQ6K	243	243	
27	W6RW	351	337	1991	88	N6VOH	243	222	
28	W6TK	350	340	1945	89	W6LEN	236	236	771
29	W6YOO	350	340	2130	90	K6JEY	234	234	
30	KC6X	350	339	2081	91	N6HE	233	225	642
31	N6WS	351	339	2322	92	N6AA	222	222	
32	N6HK	350	340		93	W6WVW	220	220	691
33	N7NR	350	329	1127	94	K6AWB	219	219	
34	W6KK	349	340	1864	95	N6PM	219	219	1030
35	W6ENZ	349	339	2383	96	K6DDJ	214	211	551
36	W6VX	349	339	2772	97	NE6V	213	213	663
37	N6HC	349	340	2319	98	W6KC	203	202	589
38	KJ6Y	348	340	1312	99	W0PE	201	201	
39	WA5VGI	348	340	2715	100	W6JEA	195	195	
40	K6ND	348	339	2562	101	N6LL	169	169	
41	N6IC	347	337		102	KF6I	166	166	
42	SM5GMZ	346	335	2379	103	K7LA	160	160	365
43	KR6C	345	339	2074	104	W6EA	152	152	
44	N6HY	345	337	2424	105	W6QE	149	149	224
45	K6RO	345	336	2256	106	N6DBF	142	142	374
46	W6FL	345	331	1223	107	AB9A	141	141	
47	K6LPO	344	331	1236	108	KI6RRD	139	138	376
48	N6PEQ	343	337	1941	109	N6CA	133	133	
49	KM6HB	343	336	1933	110	N6RU	129	128	279
50	N6PE	343	331	1941	111	K6MKL	126	126	185
51	AI6Z	342	335	2174	112	K6DSW	122	122	268
52	K7ACZ	341	337	1756	113	KC6TOD	120	120	
53	N6MXU	341	331	1416	114	W6MKO	110	0	0
54	N6XT	339	332	1413	115	K9TAD	109	109	137
55	W6SW	339	331	540	116	KA6D	107	107	
56	W6ZPL	338	335	1367	117	K6BBC	103	103	
57	K4ST	337	333	1843	118	NQ6L	101	101	
58	K2IXQ	337	332	1746	119	K6SBA	100	100	
59	K6SY	335	329	1070	120	N6YQ	100	100	
60	W6DR	331	326	1431	121	WA6MEM	100	100	
61	K6QU	329	323	1377	122	N6RRY	100	70	125

WAZ Standings

Rank	Call	11B	5B	Awards
1	K6ND	378	200	M/5
2	W6SR	378	200	M/P/C/5
3	N6WS	376	200	M/P/C
4	K6FG	368	200	M/P/C/R/5
5	WA5VGI	358	200	M/P/C/5
6	EU7SA	357	200	M/5
7	W8DX	357	200	M/5
8	N6AW	355	200	M/P/C/5
9	K6YUI	353	200	M/P/C/R/5
10	NS6C	345	200	
11	K6YRA	337	200	P/5
12	N6OU	220	200	
13	SM5GMZ	352	199	
14	W6VX	352	199	M/P/C
15	K6GXO	358	198	M
16	W6ENZ	350	197	
17	N6HY	365	196	M/P/C
18	K6RO	327	196	M/P/C
19	W6TK	326	195	
20	AI6Z	321	194	
21	N6MXU	155	193	
22	N6RV	347	190	M/P/C
23	KC6X	320	189	
24	N6QQ	337	187	
25	KM6HB	316	186	
26	AC6DX	321	185	
27	W6YOO	308	185	
28	KR6C	324	184	
29	W6DR	316	184	
30	N6GP	304	184	
31	W6OU	297	184	
32	K7ACZ	308	183	
33	AA6PW	291	181	
34	N6VNI	299	178	
35	ZL3TE	294	178	
36	K6KII	191	177	
37	KT6LA	233	173	
38	K0OK	286	173	
39	K6SY	246	173	
40	W6ZPL	237	173	
41	KJ6Y	261	172	
42	N6WT	298	164	
43	N6DHZ	241	162	
44	NK6A	217	156	
45	W6KC	161	153	
46	W6FL	256	149	
47	N6PM	233	147	
48	K7MY	227	141	
49	NE6V	207	141	
50	N6HE	195	134	
51	K6DDJ	182	132	
52	KB6CIO	192	126	
53	K6IRD	154	126	M/P
54	N6DBF	179	118	
55	W6SW	147	118	
56	KI6RRD	181	113	
57	W6IRD	151	111	M/P
58	W3SE	102	112	
59	K6RI	136	99	
60	K6VC	96	96	M/P
61	N6RU	132	96	
62	W6MKO	130	88	
63	W6EA	92	86	
64	N6UC	78	78	M
65	KE6PLA	104	72	
66	KA6TTV	82	67	
67	K6QU	94	66	
68	N6RRY	76	65	
69	K9TAD	61	55	
70	K6JW	40	40	M/P
71	W6DOE	37	37	
72	W6LEN	33	27	
73	K6FOD	17	13	
74	N6HC	17	13	M/P/C
75	KB6TKV	17	13	P
76	K8RD	17	13	C

2020 Get Schroeder Contest

1A0	4S	7Q	A3	CE9	E7	FK	GI	HS	KH0	LZ	PJ7	T2	TY	VK9L	VU4	YV0
1S	4U1ITU	7X	A4	CN	EA	FK/C	GJ	HV	KH1	OA	PY	T30	TZ	VK9M	VU7	Z2
3A	4U1UN	8P	A5	CO	EA6	FM	GM	HZ	KH2	OD	PY0F	T31	UA	VK9N	XE	Z3
3B7	4W	8Q	A6	CP	EA8	FO	GU	I	KH3	OE	PY0S	T32	UA0	VK9W	XF4	Z6
3B8	4X	8R	A7	CT	EA9	FO/A	GW	IS0	KH4	OH	PY0T	T33	UA2	VK9X	XT	Z8
3B9	5A	9A	A9	CT3	EI	FO/C	H4	J2	KH5	OH0	PZ	T5	UJ	VP2E	XU	ZA
3C	5B	9G	AP	CU	EK	FO/M	H40	J3	KH6	OJ0	R1F	T7	UN	VP2M	XW	ZB2
3C0	5H	9H	BS7H	CX	EL	FP	HA	J5	KH7K	OK	S0	T8	UR	VP2V	XX9	ZC4
3D2	5N	9J	BU	CY0	EP	FR	HB	J6	KH8	OM	S2	TA	V2	VP5	XZ	ZD7
3D2/C	5R	9K	BV9P	CY9	ER	FS	HB0	J7	KH8S	ON	S5	TF	V3	VP6	YA	ZD8
3D2/R	5T	9L	BY	D2	ES	FR/G	HC	J8	KH9	OX	S7	TG	V4	VP6/D	YB	ZD9
3DA	5U	9M2	C2	D4	ET	FR/J	HC8	JA	KL7	OY	S9	TI	V5	VP8	YI	ZF
3V	5V7	9M6	C3	D6	EU	FR/T	HH	JD1/M	KP1	OZ	SM	TI9	V6	VP8/G	YJ	ZK3
3W	5W	9N	C5	DL	EX	FT5W	HI	JD1/O	KP2	P2	SP	TJ	V7	VP8/H	YK	ZL
3XA	5X	9Q	C6	DU	EY	FT5X	HK	JT	KP4	P4	ST	TK	V8	VP8/O	YL	ZL7
3Y/B	5Z	9U	C9	E3	EZ	FT5Z	HK0/M	JW	KP5	P5	SU	TL	VE	VP8/S	YN	ZL8
3Y/P	6W	9V	CE	E4	F	FW	HK0/S	JX	LA	PA	SV	TN	VK	VP9	YO	ZL9
4J	6Y	9X	CE0X	E5/N	FG	FY	HL	JY	LU	PJ2	SV/A	TR	VK0H	VQ9	YS	ZP
4L	7O	9Y	CE0Y	E5/S	FH	G	HP	K	LX	PJ4	SV5	TT	VK0M	VR	YT	ZS
4O	7P	A2	CE0Z	E6	FJ	GD	HR	KG4	LY	PJ5	SV9	TU	VK9C	VU	YV	ZS8

Chart Legend	
White / Green	Entity Worked This Year by a Member
Black / White	Very Active Entity Not Yet Worked
Black / Blue	Entity with Announced DXpedition
Black / Yellow	Rarely Active Entity Not Yet Worked
Black / Red	Inactive Entity
	Deleted Entity

The COVID-19 lockdown has affected everyone. Many are not working. Those who were retired and footloose are now sequestered in their homes, and students are out of school! Even the members who were killing themselves to turn out a great convention are left holding the bag and wondering was it worth it. This situation is reflected in the Get Schroeder standing. To assuage the insanity of boredom people are on the air and discovering that it is fun!

Of particular note is Kent, N6WT, is #8 in the world and #3 in the US! Bill, N6WS, is #20 in the world and #11 in the US. They are #1 and #3 West of the Mississippi! Looking at the total number of entities worked by members is pretty impressive, 250. Only 2 behind last year even with the DXpedition pull back.

One last thing. We parsed out the entities worked exclusively by members living in Southern California. Note that 6 entities were worked exclusively by members at large.

If we look at the entities SCDXC worked that the CLubLog leaders has not all have not been on the air! If you are the one who worked FT5Z, J5,

2020 Get Schroeder Leaders	
2020 Total Entities Worked by March	250
2019 Total Entities Worked by March	252
2020 Entities Worked by SCDXC	236
2020 Entities Worked by SCDX Members in SoCal	230
2019 SCDXC Entities Worked by March	227
2020 ClubLog Leaders	246
2019 ClubLog Leaders Entiies Worked by March	251
2019 SCDXC Members	273
2019 SCDXC Leader (N6WT)	251
2019 ClubLog Leaders	285

Rank	Call	Entities	Lat Mo.	Last Yr	Leader	-Tot	-QQ	Uniques
								14
1	N6WT	219	25	-32	0	17	-45	3
2	N6WS	208	37	-38	-11	28	-34	0
3	K6RO	200	22	-19	-19	36	-26	0
4	N0FW	197	58	163	-22	39	-23	4
5	W6TK	196	36	-50	-23	40	-22	0
6	N6QQ	174	16	-66	-45	62	0	1
7	W6OU	173	16	-60	-46	63	1	1
8	N6RV	172	30	-68	-47	64	2	0
9	WA5VGI	141	12	-73	-78	95	33	0
10	NS6C	133	25	-54	-86	103	41	0
11	K7ACZ	127	23	-73	-92	109	47	1
12	N6VNI	115	42	37	-104	121	59	1
13	N6PM	113	29	-59	-106	123	61	0
14	AI6Z	113	26	-62	-106	123	61	0

SCDXC Worked Not ClubLog

FT5Z J5 ST TJ

ClubLog Worked Not SCDXC

3DA	EP	V6	XU	YI
4U1ITU	S2	VK9L	XW	Z2
5A	T30	VP8/H	XZ	

SCDXC Get Schroeder Standings 2020

Rank	Call	160	80	60	40	30	20	17	15	12	10	6	Total	Slots	Yrs
1	N6WT	9	67	18	119	105	175	78	40	5	5	0	219	621	6
2	N6WS	10	49	27	124	94	147	52	30	12	10	0	208	555	56
3	K6RO	14	47	17	134	58	168	134	64	21	20	0	200	677	32
4	N0FW	108	112	108	72	110	74	85	67	19	23	0	197	778	24
5	W6TK	8	76	22	126	88	165	90	65	24	10	0	196	674	63
6	W6OU	4	14	0	41	11	112	35	13	7	0	0	178	237	57
7	N6QQ	12	34	1	130	97	145	63	58	11	10	2	174	563	63
8	N6RV	0	1	5	129	22	131	26	46	4	3	0	170	367	52
9	WA5VGI	44	0	42	48	6	105	33	17	4	2	8	141	309	36
10	NS6C	21	15	0	32	14	102	12	4	2	0	0	133	202	63
11	K7ACZ	9	29	0	44	12	111	8	3	0	0	0	127	216	51
12	N6PM	32	17	8	26	33	52	29	12	6	1	0	113	216	26
13	AI6Z	0	0	0	57	0	96	0	17	0	0	0	113	170	27
14	N6VNI	5	2	0	44	0	87	8	3	0	0	0	110	149	31
15	N6GP	0	39	0	37	2	82	1	18	0	1	2	94	182	31
16	N6DHZ	0	19	0	51	5	66	7	16	1	0	0	93	165	32
17	ZL3TE	0	7	4	49	28	2	28	70	2	3	1	89	194	16
18	K6FG	11	16	0	34	4	52	15	0	0	0	0	83	132	64
19	K7MY	0	8	0	38	1	60	2	32	0	0	0	80	141	43
20	W6KC	2	29	0	46	2	66	1	34	0	0	0	78	180	60
21	NK6A	0	4	0	22	0	73	0	37	0	0	0	76	136	75
22	W6ENZ	27	7	0	14	21	30	26	4	2	0	0	66	131	53
23	W6SR	0	5	0	25	1	56	4	13	3	0	0	62	107	53
24	K6QU	0	13	0	21	13	40	20	12	7	2	0	61	128	6
25	K6SY	0	12	0	33	7	23	16	1	0	0	0	55	92	51
26	K6RI	0	0	1	33	15	2	13	6	1	0	0	52	71	7
27	W6DR	33	6	0	15	2	16	0	6	0	0	2	51	80	40
28	KR6C	1	0	0	30	4	24	2	3	0	0	0	50	64	42
29	K0XP	37	11	0	6	1	3	1	4	0	0	0	46	63	2
30	N6DBF	0	4	7	33	1	9	2	5	0	3	0	43	64	34
31	KI6RRD	1	1	0	2	2	4	26	29	1	1	1	41	68	12
32	N6RRY	0	0	0	5	0	22	0	0	0	0	1	26	28	32
33	K6JW	0	2	0	2	0	11	0	0	0	0	0	14	15	61
34	K6FOD	1	6	0	3	1	1	6	1	0	0	0	12	19	2
35	KB6CIO	0	2	0	2	3	4	3	1	0	0	0	6	15	37
36	KF6I	1	1	0	2	0	4	0	3	0	0	0	4	11	16
37	W6MKO	0	0	0	2	0	2	0	0	0	0	0	4	4	3
38	W6SW	0	0	0	1	0	3	0	0	0	0	0	3	4	41
39	N6RU	0	0	0	1	0	2	0	1	0	0	0	3	4	14
40	K9TAD	0	0	0	2	0	0	0	0	0	0	0	2	2	13

For Sale

For Sale (K6RO)

 # 2 Alpha 87a: 1500 watt amp
full output on all bands.
ser # 91190053 w/box and manual.
Comes with Alpha Power remote software. I never tried it.
I purchased this amp used in 2007 hoping to get back on the air.
Sat in box for 12 years. I never used it as my HOA said no radio. Very low hours.
Great amp for someone not wanting to spend $6500 or more for a new amp.
$2995 obo ..pickup only in RPV area.

 # 1 Alpha 87a: 1500 watt amp
full output on all bands. w/box
I purchased it from a local ham who almost never used it. Excellent condition, very minimal paint chips.
Was back to Alpha for a minor repair in 2008,and almost no use since then.
Can supply a copy of my other manual.
$2995 obo ..pickup only in RPV area.

Used Force 12 C3-SS 10/15/20M Yagi..works on 12/17 with a tuner.
Works great.
Retail new $1229.00

Please Contact Larry at his QRZ.com email address.

For Sale (K6QU)

Icom PW-1- $2000 plus shipping
Solid State Amplifier for sale. It has just been refurbished by Icom.
He will deliver it locally.
Contact Jerry at his QRZ.com email address.

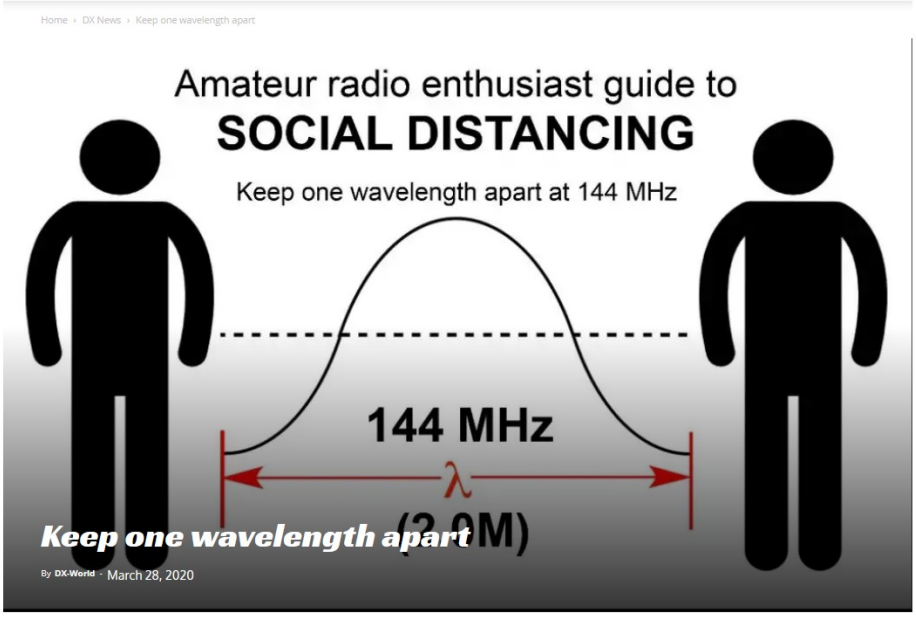
For Sale (KR6C)

Yaesu FT-1000 - $1800
Mint Condition
Contact Bart Doring, N7OD @ 951-201-2779

Corona Virus Guideline for Hams

Amateur Radio operators are requested to adapt to the Corona virus mitigation guidelines as they apply to amateur radio operating.

1) All ham radio operators are encouraged to stay at least 6 feet from the microphone in order to maintain proper separation from others. The distance may be reduced if a mask is put on the microphone.
2) CW operators should wear appropriate gloves when handling keys.
3) There should be no more than 10 stations on the same frequency at the same time.
4) Disinfect your knobs, switches, etc before operating ... especially touch screens and PTT.
5) Shoe covers should be worn when using foot switches. Use of hands-free VOX is strongly encouraged although from 6 feet away, it will be necessary to shout.
6) Disinfect all antenna cables coming into the station.
7) Only mobile stations and walkie-talkie contacts are permitted where sit-down service has been banned. The 6 ft microphone separation guideline is suspended for these types of operation, but a mask on the microphone is strongly recommended.
8) Mobile operators are encouraged to remain in their vehicles except to get necessities.
9) Operators should leave their operating positions only for necessities.
10) Outdoor antenna work is allowed as long as there is social distancing among all who are present.
11) Hoarding of batteries, spare tubes, etc. is discouraged and is unfair to others. We are in this together.
12) New equipment and parts should be ordered online for front porch delivery.
13) Do not test (tune) your equipment unnecessarily. Testing should be reserved for those who actually need it.
14) Your understanding and cooperation in this matter will be appreciated.



Resource Page

Useful DX Sites

N0HR DXpedition Map
www.n0hr.com/wk34/

The DX Zone
www.dxzone.com/catalog/DX_Resources/

The Daily DX
www.dailydx.com/

Announced DX Ops
www.ng3k.com/misc/adxo.html

DXing.info
/www.dxing.info/dxpeditions/

DX 425 News
www.425dxn.org/dxped/

Dx-info.de
www.dx-info.de

DX Italia DX News

ARRL VE Exam Sessions

To find an ARRL exam sessions in your area go to the website:

http://www.arrl.org/find-an-amateur-radio-license-exam-session

Club and Conduct Sites

Officer Guidelines

http://www.scdxc.org/download/Officer_Guidelines.pdf

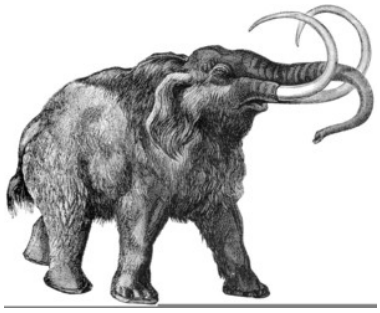
DX Code of Conduct

http://www.dx-code.org/

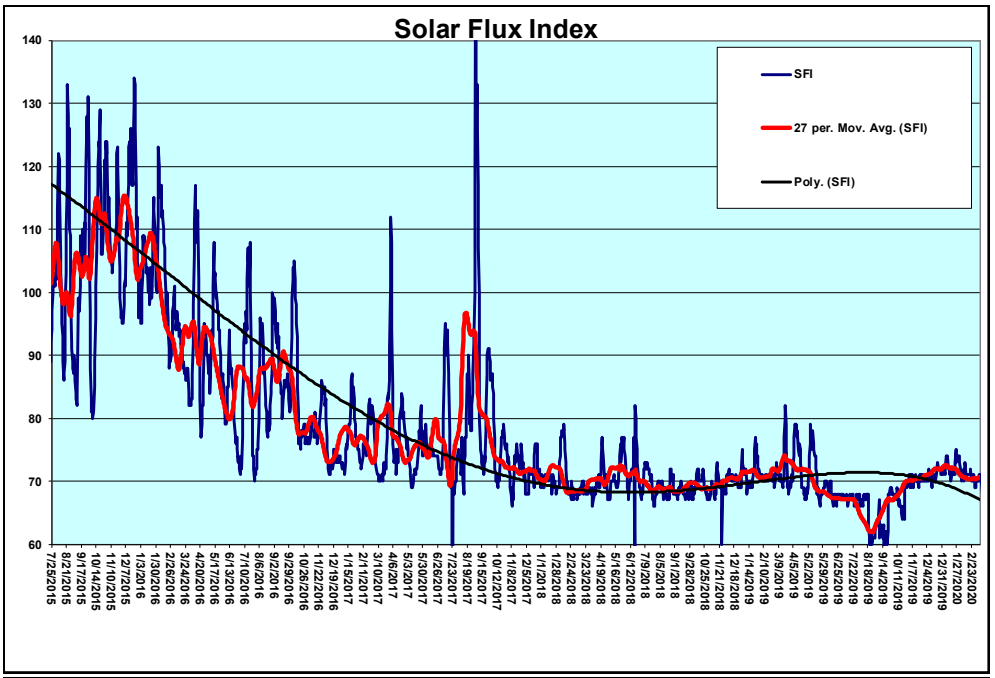
Propagation

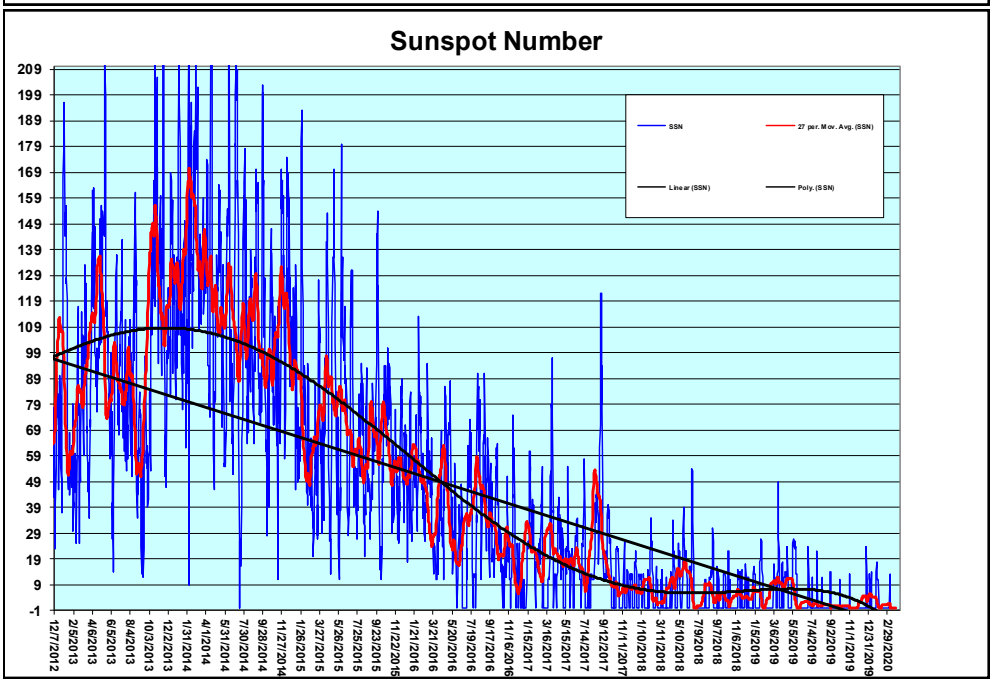
Still More Zeroes!

No change…….



Maunder Minimum.. Maunder Minimum!





HAM RADIO OUTLET
WORLDWIDE DISTRIBUTION

Store	E-mail	Direct	Toll Free	Fax
Anaheim	ana@hamradio.com	1-714-533-7373	1-800-854-6046	1-714-533-9485
Burbank	bnk@hamradio.com	1-818-842-1786	1-800-854-6046	1-818-842-5283
San Diego	sd@hamradio.com	1-858-560-4900	1-800-854-6046	1-858-560-1705

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